ELSEVIER

0951-8320(95)00011-9

Reliability Engineering and System Safety **47** (1995) 241–242
© 1995 Elsevier Science Limited
Printed in Northern Ireland. All rights reserved

Contents of Volume 47

Number 1

1 System State Monitoring and Lifetime Scales—I
K. H. B. KORDONSKY (USA) & I. B. GERTSBAKH (Israel)

15 A Reliability Model for Optimization of Test Schemes for Fire and Gas Detectors
P. HOKSTAD, P. FLØTTEN, S. HOLMSTRØM (Norway), F. MCKENNA (UK) & T. ONSHUS (Norway)

27 Probabilistic Interpretation of Command and Control Signals: Bayesian Updating of the Probability of Nuclear Attack
M. E. PATÉ-CORNELL & P. S. FISCHBECK (USA)

37 An Integral Equation Approach to the Interval Reliability of Systems Modelled by Finite Semi-Markov Processes
A. CSENKI (UK)

47 Estimation of Structures Reliability for Non-precise Limit State Models and Vague Data
V. P. SAVCHUK (Ukraine)

Technical Note

59 Biasing the Transition Probabilities in Direct Monte Carlo
E. ZIO (Italy)

65 Call for Papers—Computers in Industry

67 Calendar

Number 2

69 Availability of Multifunctional Systems
A. SOLS (Spain) & J. A. NACHLAS (USA)

75 Identification of Causes of Human Errors in Support of the Development of Intelligent Computer-assisted Instruction Systems for Plant Operator Training
Y. FURUHAMA, K. FURUTA & S. KONDO (Japan)

85 Control Model of Maintainability Level
W. TARELKO (Poland)

93 A Practical Reliability Analysis Method for Engineers
CHANG HUAJIAN & SHI YONGCHANG (People's Republic of China)

97 Some Further Results on Ranking the Importance of System Components
FAN C. MENG (Taiwan)

103 Safety Analysis and Synthesis Using Fuzzy Sets and Evidential Reasoning
J. WANG, J. B. YANG & P. SEN (UK)

119 Improving Allowed Outage Time and Surveillance Test Interval Requirements: a Study of their Interactions Using Probabilistic Methods
S. A. MARTORELL, V. G. SERRADELL (Spain) & P. K. SAMANTA (USA)

Technical Note

131 'Violation'—Does HRA Need the Concept?
E. DOUGHERTY (USA)

Report

137 European Dependable Computing Conference EDCC-1
K. ECHTLE

139 Calendar

Number 3

141 Geotechnical System Reliability of Slopes
R. N. CHOWDHURY & D. W. XU (Australia)

153 Algorithms for Analyzing the Probability of *M*-out-of-*N* Events
F. E. HASKIN, G. E. RADKE, JR & J. EVANOFF (USA)

163 An Approach for Evaluating Expert Performance in Emergency Situations
H. UJITA, R. KAWANO & S. YOSHIMURA (Japan)

175 A General Discrete-time Dynamic Programming Model for the Opportunistic Replacement Policy and its Application to Ball-bearing Systems
D. KECECIOGLU & F.-B. SUN (USA)

187 Reliability Modeling Involving Two Weibull Distributions
R. JIANG & D. N. P. MURTHY (Australia)

199 Time-dependent Unavailability of Aging Standby Components Based on Nuclear Plant Data
T. A. HILSMEIER, T. ALDEMIR & W. E. VESELY (USA)

207 Assessment of Availability of a Fluid Catalytic Cracking Unit through Simulation
G. THANGAMANI, T. T. NARENDRAN & R. SUBRAMANIAN (India)

221 Discussion of Compensating Faults in Modelling of NMR System Reliability
J. BIERNAT (Poland)

229 **Technical Notes**
On the Use of Coefficient of Variation for Uncertainty Analysis in Fault Tree Analysis
KWANG-IL AHN (Korea)

231 Time-dependent Reliability of Rock-anchored Structures
M. CHAKRAVORTY, D. M. FRANGOPOL, R. L. MOSHER & J. E. PYTTE (USA)

237 **Letter to the Editors**
Probabilistic Intrepretation of Command and Control Signals: Bayesian Updating of the Probability of Nuclear Attack: a Reply
M. E. PATÉ-CORNELL & P. S. FISCHBECK (USA)

239 Calendar

241 Contents of Volume 47